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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/587,229	10/31/2007	Antonio A. Garcia	01231.0002U2	6716	
32425 FULBRIGHT	7590 12/11/2008 & JAWORSKI L.L.P.		EXAMINER		
600 CONGRESS AVE.			SCHNIZER, RICHARD A		
SUITE 2400 AUSTIN, TX	78701		ART UNIT	PAPER NUMBER	
,			1635		
			MAIL DATE	DELIVERY MODE	
			12/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/587,229 GARCIA ET AL. Office Action Summary

Office Action Summary	Examiner	Art Unit					
	Richard Schnizer	1635					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO principle of reply is generalized above, the machinent statutory period ware and the provision of th	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim- till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,				
Status							
Responsive to communication(s) filed on							
2a) This action is FINAL. 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-35 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8)⊠ Claim(s) <u>1-35</u> are subject to restriction and/or e	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) I he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	IO-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	+(d) or (f).					
1. Certified copies of the priority documents have been received.							
Certified copies of the priority documents	s have been received in Application	on No					
Copies of the certified copies of the prior	•	ed in this National	Stage				
application from the International Bureau							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal P						

3) Information Disclosure Statement(s) (PTO/SE/08) Paper No(s)/Mail Date _____.

5) Notice of Informal Patent Application
6) Other: _____.

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DETAILED ACTION

The restriction requirement of 11/20/08 is hereby withdrawn in favor fo the following requirement.

Election/Restrictions

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species of a composition comprising the spyropyran set forth in claim 8 wherein R¹ is selected from H, alkyl, alkenyl, alkoxy, aryl, halide, hydroxyl, amino, nitro, silvl, sulfo-oxo, sulfonylamino, ether, ester, carboxylic acid, or thiol group;

Species of the same composition comprising R^2 independently selected from H, alkyl, alkenyl, alkoxy, aryl, halide, hydroxyl, amino, nitro, silyl, sulfo-oxo, sulfonylamino, thiol, ether, ester, carboxylic acid, or together each R^2 substituent forms a keto group, a cyclic alkyl group, a cyclic alkenyl group, or an anyl group.

Species of the same composition wherein X is a substituted or unsubstituted C1 to C4 alkyl of alkenyl group.

The species set forth in claim 12, which appears to be distinct from the genus set forth in claim 8, because it does not comprise a group 'X' as defined by claim 8.

Applicant is required to elect a single spyropyran for examination, and identify each of R^1 and R^2 Applicant is also required identify X and show what is the resulting ring system that is to be searched.

Regarding claims 23-25, Applicant is required to elect a species of hydrogel selected from microgel, nanogel, and colloidosome.

Regarding claims 26 and 27, Applicant is required to indicate whether the elected spyropyran composition reads on claim 26, claim 27, both, or neither i.e. whether the elected composition reads on a composition that decreases in size upon exposure to VI light, on a composition that increases in size upon exposure to visible light, on both or on neither.

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The claims are deemed to correspond to the species listed above in the following manner:

Claim 10 corresponds to R2 = alkyl.

Claims 11 corresponds to R1= nitro.

Ciairiis 11 corresponds to K1- Ilitio.

Claims 12 and 13 correspond to the structure disclosed in claim 12.

Claims 23-25 correspond to microgel, nanogel, and colloidosome, respectively.

Claim 26 corresponds to species of composition that decrease in size upon exposure to UV light.

Claim 27 corresponds to species of composition that increase in size upon exposure to visible light.

The following claim(s) are generic: 1-9, 14-22 and 28-35.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The technical feature linking the species is a hydrogel comprising a spiropyran. However, this feature was known in the prior art. For example, Asher et al (US 6589452) taught hydrogels of acrylamide, or substituted acrylamides, comprising spiropyrans and crosslinked with N,N' methylenebisacrylamide, thus anticipating several of the species.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims

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subsequently added. An argument that a claim is allowable or that all claims are qeneric is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Any inquiry concerning this communication or earlier communications from the examiner(s) should be directed to Richard Schnizer, whose telephone number is 571-272-0762. The examiner can normally be reached Monday through Friday between the hours of 6:00 AM and 3:30. The examiner is off on alternate Fridays, but is sometimes in the office anyway.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, James (Doug) Schultz, can be reached at (571) 272-0763. The official central fax number is 571-273-8300. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application information Retrieval system (PAIR) can now contact the USPTO'S Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST) the toil free number is (866) 127-1917. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO'S Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO'S PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

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/Richard Schnizer/ Primary Examiner, Art Unit 1635